STANDARD SHA CADD SOFTWARE

Tuesday, February 13, 2018

Current MDOT SHA Software Platform

The current release of the **V8i CAD Standards** has been designed to run on **MicroStation V8i (SELECTseries 3) V8.11.09.459** and **InRoads V8i (SELECTseries 2) V8.11.07.615**. This is the officially supported version for any existing projects on **SHA's ProjectWise Datasource SHAEDMS01**. All projects on **SHAEDMS01** are to be maintained and edited within **MDOT SHA's ProjectWise**. These projects must be accessed by using the **ProjectWise Explorer**.

Specific Project Requirements - Existing and Ongoing

Projects stored under **...\SHAEDMS01\Documents\Areawide Projects** and under **…\ SHAEDMS01\Documents\Projects** are using an unmanaged workspace. Any work performed on these projects require a local version of **SHA**'s workspace in addition to **ProjectWise Client**. The local workspace required must include Version 10b (a complete workspace) and Updates 01.11, 01,12 & 01.13b.

There are projects stored under **…\SHAEDMS01\Documents\Projects (MW)**. These projects use what is called a **Managed Workspace**. Projects using a managed workspace do not use, need or rely on any local workspace other than the workspace delivered with the core products. When a CADD file is opened from the **ProjectWise Explorer**, those in a managed workspace will download a copy of the workspace and any files needed to view or edit the selected file according to SHA's workspace. Files in the unmanaged workspace will use the local copy of SHA's workspace.

Existing projects will remain in their current Datasource, software versions and workspace unless otherwise notified.

Specific Project Requirements - New Starts

MDOT SHA has been directed that all new projects will be developed using **InRoads SELECTseries 4 (with Open Roads Technology)**, to begin delivering 3D models of all appropriate projects.

Any **SHA** documentation or correspondence that uses the term **Open Roads** is intended to refer to this specific version of **InRoads**. At this point in time, **SHA** is not able to support any design efforts using **Bentley's Open Roads Designer** software nor would we expect any of our consultants to undertake any efforts necessary to use **Open Roads Designer** in an **SHA** compatible workspace.

As part of the migration to **OpenRoads, SHA** is implementing the use of **Bentley's Power InRoads (SELECTseries 4)** software as part of any internal design or review efforts. **Power InRoads** is a bundling of **MicroStation** and **InRoads Suite** into a single integrated platform. **SHA** is using version **08.11.09.832 (MicroStation CADD Engine)** and **08.11.09.878 (InRoads)**. Note: **Power InRoads** has two version numbers - one for the CADD engine and one for the **InRoads** component.

New projects will be stored on **…\SHAEDMS02\Documents\Projects** and will be operating using a managed workspace. The **Open Roads** managed workspace is currently only available while in **SHA's ProjectWise** environment. The workflows, files and folder structures of the managed workspace is significantly different than the current workspace and is still undergoing significant development efforts. While the workspace is fully functional, refinements are being made and are easier managed by keeping the workspace as a **Project Wise Managed Workspace** only at this time.

It should be noted that there is a **GEOPAK (SELECTseries 4)** version of **Open Roads**, that can create files which are compatible with the **InRoads** version. However, the workspace configuration must be specifically tailored to **InRoads** or **GEOPAK** and cannot accommodate both simultaneously. **SHA** does not have the resources to implement a **GEOPAK** compatible workspace. For this reason, **SHA** is no longer supporting **GEOPAK** as a civil platform on new projects.

With the migration to **OpenRoads**, the **SHA** level naming convention is being aligned with the **National CAD Standards (NCS)**. This allows **SHA** to use more **ByLevel** settings and many other settings that are required by **OpenRoads**.

Users who have worked on **WSSC**, **USACE**, **GSA**, **WMATA** and many other agency projects will find familiar ground with this change.

These documents will continue to refer to **MicroStation** unless a specific topic applies only to one of the **Bentley Civil Products**. All references to **MicroStation** apply to any **Bentley** CAD platform of a similar version number.

Supported Alternative Platform Notes

The **SHA** workspaces have been developed and tested on the software available to **SHA**. For the current workspace, that means **MicroStation** and **InRoads**. For the **InRoads/Open Roads (SELECTseries 4)** workspace, that means **Power InRoads**. We can neither test nor certify these workspaces on platform combinations that we do not have.

However, many of our consultants have been able to use our workspace with **Power Civil for North America**, **Power Survey** and **Power Draft**. These platforms use the **Power Draft** CADD engine and have the same restrictions as **Power Draft**. Of those, the one with the most impact is the prohibition of applications that use DLL files.

This restriction impacts **MCPC**, **AcadPan**, **CivTools**, **CellTool**. **InfoSnap** and **SignCAD**. These can only be used with **Power InRoads** or **MicroStation** with **InRoads**.

Consultants attempting to use earlier versions of these platforms may experience errors trying to run certain custom tools.